

What is claimed is:

1. A method of establishing a communication channel using protected network resources, comprising:
 - creating a first data packet requesting a reservation of network resources and containing a first object comprising a connection request;
 - 5 sending said first data packet from a first communication endpoint across a network to a second communication endpoint;
 - creating a second data packet related to said request for network resources and containing a second object comprising a connection request acknowledgment;
 - 10 sending said second data packet from said second communication endpoint to said first communication endpoint;
 - creating a third data packet confirming said reservation of network resources and containing a third object comprising a second connection request acknowledgment; and
 - sending said third data packet from said first communication endpoint to said second communication endpoint.
2. The method of Claim 1, wherein said first data packet comprises an RSVP path message, said second data packet comprises an RSVP reservation message, and said third packet comprises an RSVP confirm message.
3. The method of Claim 1, wherein said first, second and third objects comprise transmission control protocol messages.

4. The method of Claim 1, wherein said first, second and third objects
comprise session initiation protocol messages.

5. The method of Claim 1, further comprising:
receiving said first packet at a first network node intermediate to said first and
second communication endpoints, said first network node:

acting on said request for a reservation of network resources; and
5 ignoring said first object.

6. The method of Claim 5, further comprising:
receiving said second packet at at least one of said first network node and a
second network node, said at least one network node:

acting on said resource reservation message; and
5 ignoring said second object.

7. The method of Claim 6, further comprising:
receiving said third packet at at least one of said first network node and said
second network node, said at least one network node:

acting on said reservation confirmation message; and
5 ignoring said third object.

8. The method of Claim 1, further comprising:

sending data across said reserved network resources between said first and second communication endpoints.

9. The method of Claim 1, wherein said first communication endpoint

comprises one of a telephony device and a general purpose computer.

10. The method of Claim 1, wherein said network node comprises one of a

router or gateway.

11. A computational component for performing a method, the method comprising:

creating a first data packet requesting a reservation of network resources and containing a first object comprising a connection request;

5 sending said first data packet across a network;

receiving a second data packet related to said request for network resources and containing a second object comprising a connection request acknowledgment; and

sending a third data packet confirming said reservation of network resources and containing a third object comprising a second connection request acknowledgment.

12. The method of Claim 11, further comprising:

sending data using said reserved network resources.

13. The method of Claim 11, wherein said objects comprise one of transmission control protocol and session initiation protocol objects.

14. The method of Claim 11, wherein said data packets comprise one of resource reservation protocol, resource reservation protocol traffic engineering, and CR-LDP reservation messages.

15. The method of Claim 11, wherein said computational component comprises a computer readable storage medium for performing the method.

16. The method of Claim 11, wherein said computational component comprises a logic circuit.

17. A system for establishing a communication channel using reserved network resources, comprising:

a first communication endpoint means; and

communication network means interconnected to said first communication endpoint means, wherein said communication endpoint means transmits data packets comprising means for requesting a reservation of network resources and at least a first object comprising signaling means for establishing a communication channel between communication endpoints.

5

18. The system of Claim 17, further comprising:

second communication endpoint means interconnected to said communication network means.

19. The system of Claim 18, further comprising means for routing data packets, wherein at least a first action is take in response to receiving said means for requesting a reservation of network resources, and wherein said means for establishing a communication channel between communication endpoints is ignored.

20. A data packet, comprising:

a network resource reservation protocol object; and

a communication protocol object.

21. The data packet of Claim 20, wherein said reservation protocol object comprises an RSVP message.

22. The data packet of Claim 20, wherein said communication protocol object comprises one of a TCP, SCTP and SIP protocol message.

23. The data packet of Claim 20, wherein said communication protocol object is embedded in said network resource reservation protocol object.

24. A computational component for performing a method, the method comprising:

receiving a first data packet requesting a reservation of network resources and containing a first object comprising a connection request;

5 creating a second data packet related to said request for network resources and containing a second object comprising a connection request acknowledgment; and

receiving a third data packet confirming said reservation of network resources and containing a third object comprising a second connection request acknowledgment.

25. The method of Claim 24, further comprising:

sending data using said reserved network resources.

26. The method of Claim 24, wherein said objects comprise one of transmission control protocol and session initiation protocol objects.

27. The method of Claim 24, wherein said data packets comprise one of resource reservation protocol, resource reservation protocol traffic engineering, and CR-LDP reservation messages.

28. The method of Claim 24, wherein said computational component comprises a computer readable storage medium for performing the method.

29. The method of Claim 24, wherein said computational component comprises a logic circuit.